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APPLICANT : SEKISUI CHEM CO LTD;

INVENTOR : KAMIYA MASATAKE;

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TITLE : CURABLE INORGANIC COMPOSITION

ABSTRACT : PURPOSE: To obtain a curable inorganic composition having high strength and excellent durability such as heat-resistance and weather resistance in a short time by compounding prescribed reactive inorganic powder with an alkali metal silicate and water.

CONSTITUTION: This curable inorganic composition is produced by compounding (A) 100 pts.wt. of reactive inorganic powder obtained by compounding (a) 20-99.5wt.% of one or more kinds of inorganic powder selected from fly ash containing ≥ 80 wt.% of powder having particle diameter of $\leq 20\mu\text{m}$, fly ash baked at $400-1000^\circ\text{C}$ and containing ≥ 80 wt.% of powder having particle diameter of $\leq 20\mu\text{m}$ and inorganic powder produced by applying mechanical energy of $0.1-30\text{KWh/kg}$ to clay with (b) $0.5-80$ wt.% of one or more kinds of alumina powder selected from alumina cement powder, γ -alumina powder and alumina powder produced by flame-spraying with (B) $1-300$ pts.wt. of an alkali metal silicate and (C) $10-1,000$ pts.wt. of water.

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